



LABORATORY
OF THE
INLAND REVENUE DEPARTMENT
OTTAWA, CANADA

BULLETIN No. 293

EVAPORATED APPLES

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INLAND REVENUE DEPARTMENT

OTTAWA, CANADA

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EVAPORATED APPLES

OTTAWA, Sept. 29th, 1914.

J. U. VINCENT, Esq.,

Asst. Deputy Minister, Inland Revenue.

SIR,—I beg to hand you a report dealing with one hundred and eighty-four (184) samples of Evaporated Apples, purchased by our inspectors between February and May of this year.

By an Order in Council of 17th October, 1912, effective from 25th November, 1912, Evaporated Apples are required to contain no more than 27 per cent of water. Experience, as recorded in all the literature to which I have had access, and as furnished by inspectors and dealers, shows that a higher percentage of water than this is inconsistent with satisfactory keeping quality. Many of the best samples herein reported contain no more than 20 per cent of moisture, and I am convinced that Evaporated Apples need not, perhaps I should say, ought not, to contain more than 20 per cent of water.

A distinction is usually made between Dried Apples and Evaporated Apples, the first term being applied to the sun-dried or home-dried products; the second, to that resulting from the use of a specially constructed machine, in which heated air is the desiccating medium. It is evident that, especially for our climate, the use of machinery specially devised to hasten the process, and to protect the fruit from dust and flies during its exposure to heated air, is most desirable. Wooden trays or trays of so called 'Agate ware' should be used and not galvanized iron. This latter material has been found to introduce soluble zinc into the product. (See Bull. 48, U. S. Dept. of Agriculture) Canvas bottomed trays are very practicable and possibly the galvanized tray might be found satisfactory if a protecting sheet of canvas were used.

There would seem to be no good reason why the large percentage of our apple crop now allowed to go to waste should not be saved in the form of Evaporated Apples. This article of food is entirely wholesome, if well prepared, and may be very attractive and desirable. It is much better suited to shipment than the fresh apple, and is available after the fresh fruit is no longer on the market.

Experiments conducted in this laboratory have shown that sliced apples dried at 80°C. (176°F), for 12 hours lose 84 per cent of their weight; in other words 100 lbs of sliced apples, yield 16 lbs of dried apples, containing 20 per cent of their weight (as dried fruit) of moisture; and that such a product weighs 13.70 lbs per bushel (2218 cubic inches) when moderate pressure is used, as in ordinary packing.

In collaboration with Dr. P. H. Bryce of the Department of the Interior, it was found that apples lose about one-fourth of their weight in the process of paring and coring. Hence a bushel of fresh apples (45 lbs) should yield about 5½ lbs of dried apples containing 20 per cent of their weight of residual moisture.

There exist a special reason for utilization of our apple crop this year, in as much as this fruit is one of the best anti-scorbutics and our troops in the field will require a certain ration of the kind. The excellent keeping qualities of properly dried apples, together with their ready portability make this food peculiarly suitable for the purpose suggested; and, with such an object in view it might be well to reduce the residual moisture considerably below even 20 per cent.

So far as the present report is concerned, the samples covered by it may be classified as follows:—

SATISFACTORY as containing not more than 27 per cent water and being fairly sound and clean.	147 samples.
UNSATISFACTORY as containing more than the legal limit of moisture.	19 "
" for other reasons.	11 "
DOUBTFUL as not meeting requirements for soundness or cleanliness.	7 "
Total.	184 samples.

Of 19 samples containing excess of water, 7 contain 30 per cent or more, and are certainly too moist to pass unchallenged.

Through the kindness of the Veterinary Director General, I have been permitted to study the advance sheets of a report on the subject of Evaporated Apples, about to be published by the Department of the Interior. I have been so impressed with the importance of the work done by this department in connection with the administration of the Inspection Acts, that I have asked to be allowed to use the following summaries:

The Report in question deals with two hundred (200) samples of Evaporated Apples and apple waste in which the moisture content was determined, and observation made of the soundness or otherwise of the fruit. The following percentages of moisture were found:

	Evaporated Apples.	Evaporated Chop.	Evaporated Waste.
Above 35 per cent moisture.....	7 samples.	none.	none.
33 to 35 " "	1 " "	" "	" "
30 to 33 " "	15 " "	" "	10 samples.
28 to 30 " "	15 " "	" "	6 " "
27 to 28 " "	15 " "	1 samples.	1 " "
25 to 27 " "	33 " "	2 " "	4 " "
22 to 25 " "	21 " "	9 " "	24 " "
20 to 22 " "	18 " "	none.	none.
Less than 20 " "	5 " "	" "	7 " "
Total.....	136 samples.	12 samples.	52 samples.

One hundred and thirty-five (135) samples were found to be satisfactory from the point of view of soundness. Of this number only sixteen (16) samples contain above 27 per cent of moisture, a striking confirmation of the generally accepted belief that 27 per cent of moisture is a maximum amount, if Evaporated Apples are to be kept in sound condition.

Sixty-five (65) of the samples are more or less fermented. These are classed as below :

1.—Slightly fermented	15 samples.
2.—Decidedly fermented	29 "
3.—Strongly fermented and practically rotten	21 "
Total	65 samples.

An examination of the moisture content gives the following results :—

	Slightly fermented.	Decidedly fermented.	Rotten.
Less than 20 per cent moisture	1 sample.	none.	none.
20 to 22 "	none.	"	"
22 to 24 "	none.	"	1 sample.
24 to 26 "	3 samples.	2 samples.	1 "
26 to 28 "	4 "	3 "	none.
28 to 30 "	4 "	7 "	2 samples.
30 to 32 "	3 "	10 "	3 "
32 to 34 "	none.	5 "	4 "
34 to 36 "	"	1 "	7 "
36 to 38 "	"	none.	1 "
Above 38 "	"	1 sample.	2 "
Total	15 samples.	29 samples.	21 samples.

It will be seen that all samples, with exception of two, which were in any degree decayed, contain above 24 per cent of moisture ; and that, up to a content of 28 per cent, only 15 samples out of 65 were found fermented ; in other words 50 samples out of 65 fermented, contained above 28 per cent of moisture. This seems to point to the fact that a safe maximum content for water in Evaporated Apples, must be found below 28 per cent.

Mr. R. J. Graham, of the Graham Co., Ltd., Belleville, addressed a circular letter to most of the men engaged in this industry in Canada, as follows :

BELLEVILLE, ONT., March 6th, 1914.

DEAR SIR :—

We have been discussing with the Government officials the advisability of reducing the percentage of moisture that is now permitted in Evaporated Apples, namely from 27 to 25 per cent. We have been testing the factories, and the Government have also been testing them from samples taken during the season. We believe it would be in the interest of all manufacturers to co-operate with the Government in reducing the moisture to a maximum of 25 per cent in order that the goods will carry in sound condition and keep sound during the summer months. Unless there is united effort on behalf of the manufacturers, and a petition signed, legislation of this kind will not be enacted the present season. We have found that good keeping quality should not contain more than 22 per cent of moisture, and unless the consumer has some guarantee that the goods will remain in sound condition until consumed, we shall lose the trade which we have now

and which is materially less than it used to be. Say by return mail if you would sign such a petition.

Yours truly,

Sgd R. J. GRAHAM,
President.

Later Mr. Graham writes of his experience ;

"There has been no unfavorable comment, and most of the manufacturers who have replied are in hearty sympathy with the movement.

We all realize the vital importance of manufacturing goods that will keep in sound condition until consumed, and it has only been made damp to meet the competition of low prices. Every manufacturer recognizes that the goods would be better if made drier, but has been forced to make them as heavy as possible in order to meet competitive price. The result of this has been disastrous to the trade."

Information received from the largest handlers of Evaporated Apples in New York is to the following effect :—

"Regarding the percentage of moisture in Evaporated Apples :

When the present law was passed in New York State which fixed 27 per cent of moisture as the extreme limit permitted in evaporated or dried apples, no legislation in that direction had previously been attempted and although the limit of 27 per cent finally decided upon, had only been fixed after a number of analyses of different parcels of Evaporated Apples, it was still to a certain extent more or less of an experiment.

The law has undoubtedly been of great benefit and has eliminated some of the more flagrant abuses, but we believe it is now generally recognized that it did not go far enough. Experience has since pretty clearly shown that apples containing as much as around 27 per cent of moisture are not safe to carry under ordinary circumstances and that as a matter of fact, there are too many people, evaporators as well as dealers who consider the 27 per cent of moisture not as simply the extreme limit of moisture permitted, but rather a regular standard for Evaporated Apples. The general consensus of opinion now is, therefore, that the moisture limit was placed too high at 27 per cent and there is a movement afoot to try to have the law changed, making the limit 25 per cent instead of 27 per cent."

It will be noted that all information obtained in regard to this matter, whether by correspondence or by experiment, tends to show that 27 per cent of moisture in Evaporated apples is too high a limit if good keeping quality is to be assured. I am strongly of opinion that 25 per cent should be made a legal maximum ; and that Evaporated Apples containing no more than 20 per cent of moisture should be preferred.

I beg to advise publication of this report as Bulletin No. 293.

I have the honour to be, Sir,
Your obedient servant,

A. MCGILL,
Chief Analyst.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF NOVA SCOTIA—

1914.							
May	8	Evaporated Apples.	53951 A. L. Doyle & Co., Halifax, N.S.	1½ lb.	23	Johnston Bros., Forest, Ont.	Payzant & King, Halifax, N.S.
"	11	"	53952 Wm. Moore, Halifax, N.S.	1½ "	18	Graham & Co., Belleville, Ont.	Unknown
"	11	"	53953 Corkum & Ritcey, Halifax, N.S.	1½ "	18	C. T. C. Canning, N.S.	Morrison & Williams, Halifax, N.S.
"	12	"	53954 S. Smith & Son, Halifax, N.S.	1½ "	21	Forsyth Bros., Greenwich, N.S.	Chisholm & Co., Halifax, N.S.
"	13	"	53955 B. H. Dodge & Co., Kentville, N.S.	1½ "	20	Clark & Collier, Oakville, Ont.	R. B. Seeton, Halifax, N.S.
"	13	"	53956 Yexas, Ltd., Kentville, N.S.	1½ "	20	Unknown	Unknown
"	14	"	53957 Shand Bros., Windsor, N.S.	1½ "	20	Clark & Collier, Oakville, Ont.	R. B. Seeton, Halifax, N.S.
"	18	"	53958 Coleman & Eisener, Dartmouth, N.S.	1½ "	20	Forsyth Bros., Greenwich, Ont.	Chisholm & Co., Halifax, N.S.
"	19	"	53959 E. W. Crease & Son, Halifax, N.S.	1½ "	18	Unknown	A. & W. Smith, Halifax, N.S.
"	19	"	53960 T. J. Brown, Halifax, N.S.	1½ "	23	Reid & Best, Thornbury, Ont.	Jno. Tobies & Co., Halifax, N.S.

DISTRICT OF NEW BRUNSWICK—

April	11	Evaporated Apples.	50678 D. R. Bedell, Andover, N.B.	1½ lb.	25	Graham Co., Ltd., Belleville, Ont.	
"	2	"	50683 M. E. Grass, Andover, N.B.	1½ "	21	Canadian Fruit Growers Assoc., Nova Scotia.	Jones & Schofield, St. John, N.B.
"	2	"	50684 W. A. Porter, Andover, N.B.	1½ "	24	Lakeview Evap. Co., Meaford, Ont.	
"	11	"	50685 J. W. McPhail, Perth, N.B.	1½ "	20	M. Schier, Norwich, Ont.	W. C. Purvis, St. Stephen, N.B.
"	20	"	50686 Puddington, Wetmore, John, N.B.	3 tins.	20	W. W. Chatterton, Grafton, Ont.	
"	20	"	50687 Vanwart Bros., St. John, N.B.	3 "	20	Mahler Bros., Chatham, Ont.	
"	21	"	50689 Frank E. Williams Co., Ltd., St. John, N.B.	3 "	18	Unknown	Unknown
"	21	"	50690 E. W. Rovey, St. John, N.B.	3 "	21	Joseph Bigelow, Port Perry, Ont.	
"	23	"	50691 Sussex Mercantile Co., Ltd., Sussex, N.B.	3 "	20	Jno. A. Holgate & Son, Bowmanville, Ont.	
"	24	"	50692 H. T. Browster, Moncton, N.B.	3 "	20	M. Schier, Norwich, Ont.	

EVAPORATED APPLES.

Inspector's Report. (Is not an expression of opinion).	Results of Analysis.					No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Moisture.	Quality.	Soundness.	Cleanliness.	Found.		

R. J. WAUGH, INSPECTOR.

	p. c.						
& King, N.S.	24.2	Good...	Sound...	Clean...		53951	Satisfactory.
	26.3	" ..	" ..	" ..		53952	"
& Wil- Halifax,	26.3	" ..	" ..	" ..		53953	"
& Co., N.S.	23.8	" ..	" ..	" ..		53954	"
on, Hali-	21.6	Fair...	" ..	" ..		53955	"
	24.8	Good...	" ..	" ..		53956	"
on, Hali-	22.7	Fair...	" ..	" ..		53957	"
& Co., N.S.	24.5	Good...	" ..	" ..		53958	"
Smith, N.S.	19.0	" ..	" ..	" ..	Slight trace SO ₂	53959	"
s & Co., N.S.	28.5	" ..	" ..	" ..		53960	Water content too high.

JNO. C. FERGUSON, INSPECTOR.

	28.3	Good...	Sound..	Clean...		50678	Water content too high.
Beaver Brand	21.8	" ..	" ..	Fairly clean.		50683	Satisfactory.
"	25.3	" ..	" ..	Clean...		50684	"
	24.1	" ..	" ..	" ..	Slight trace SO ₂	50685	"
	27.6	" ..	" ..	" ..		50686	Water content high.
	21.6	" ..	" ..	" ..		50687	Satisfactory.
Oxford Brand	23.4	" ..	" ..	" ..		50689	"
Choice Evaporated ..	31.0	" ..	" ..	" ..		50690	Water content too high.
Prime Evaporated Apples.	21.6	" ..	" ..	" ..		50691	Satisfactory.
Choice Evaporated Apples.	23.4	" ..	" ..	" ..	Slight trace SO ₂	50692	"

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF QUEBEC—

1914.							
Mar. 9	Evaporated Apples.	56215	Arthur Drolet, 712 Rue St. Valier, Quebec.	1½ lb.	23		Langlois & Paradis
" 9	"	56216	Hamel & Belard, 728 Rue St. Valier, Quebec.	1½ "	23		Whitehead & Turner.
" 10	"	56217	F. X. Gosselin, 207 Rue de la Couronne, Quebec.	1½ "	15		Unknown.
" 11	"	56218	National Railway, 88 Rue du Pont, Quebec.	1½ "	18		J. B. Renaud.
" 11	"	56219	L. F. Martel, 64 Rue du Pont, Quebec.	1½ "	18		A. P. Dupuis.
" 12	"	56220	Myrand & Pouliot, 70 Rue de la Couronne, Quebec.	1½ "	18	W. V. Schans, Neustadt, Ont.	Unknown.
" 12	"	56221	R. S. Riverin, 55 Rue de la Couronne, Quebec.	1½ "	23	J. N. Dolman, Ont.	Turcotte & Frere.
" 12	"	56222	W. Cantin, 133 Rue du Pont, Quebec.	1½ "	18	Graham & Co., Belleville, Ont.	"
" 12	"	56223	C. Belanger, 104 Rue du Pont, Quebec.	1½ "	23	Unknown.	Unknown.
" 12	"	56224	C. Martel, 49 Rue Artillery, Quebec.	1½ "	18	"	"

DISTRICT OF EAST QUEBEC—

Mar. 23	Evaporated Apples	53361	P. Lord, St. Cyrille	1½ lb.	15		Gagnon & Garent, Quebec.
" 23	"	53363	A. Lavoie, St. Eugene	1½ "	18		Drouin Frere, Quebec.
" 24	"	53366	O. Carboneau, L'Islet	1½ "	18		N. Rioux, Quebec.
" 24	"	53370	E. Clouthier, Trois Saumon.	1½ "	18		Unknown.
" 24	"	53371	A. Caron, Trois Saumon.	1½ "	18		Joseph & Cie, Quebec.
" 25	"	53372	A. Morin, St. Jean	1½ "	18		J. B. Renaud, Quebec.
" 25	"	53373	F. Lavale, St. Jean	1½ "	18		"
" 25	"	53375	A. Blais, St. Aubert	1½ "	18		Whitehead & Turner.
" 25	"	53377	F. O. Lavale, St. Aubert	1½ "	18		Joseph & Cie, Quebec.
" 25	"	53379	A. Robichaud, St. Aubert.	1½ "	18		N. Rioux, Quebec.
" 26	"	53380	F. Belanger, St. Dam.	1½ "	18		Carier & fils, Levis

EVAPORATED APPLES.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.					No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Moisture.	Quality.	Soundness.	Cleanliness.	Found.		

E. N. W. E. BELAND, INSPECTOR.

	p.c.						
.....	19.8	Good.	Sound.	Fairly clean.	Wooden rake tooth..	56215	Doubtful.
.....	29.7	"	"	Clean.	Incipient ferment- ation.	56216	Water content too high.
.....	32.1	Poor.	"	Dirty.	.....	56217	" and otherwise un- satisfactory.
Rose Brand.....	22.0	Fair.	"	Fairly clean.	.....	56218	Satisfactory.
.....	17.2	"	"	"	.....	56219	"
.....	30.4	"	"	"	.....	56220	Water content too high.
.....	15.7	"	"	"	.....	56221	Satisfactory.
.....	17.4	"	"	"	.....	56222	"
.....	28.8	"	"	Clean.	.....	56223	Water content too high.
.....	22.5	Good.	"	"	.....	56224	Satisfactory.

ALF. PELLETIER, INSPECTOR.

.....	22.6	Good.	Sound.	Clean.	.....	53361	Satisfactory.
.....	26.8	"	"	Fairly clean.	.....	53363	"
.....	18.6	Fair.	Mostly sound.	"	.....	53366	"
.....	35.3	"	"	"	Incipient ferment- ation.	53370	Water content too high.
.....	22.9	"	"	"	.....	53371	Satisfactory.
.....	18.6 ₂	"	"	Clean.	.....	53372	"
.....	14.5	"	"	Fairly clean.	.....	53373	"
.....	23.1	"	Sound.	"	.....	53375	"
.....	21.9	"	"	"	.....	53377	"
.....	23.2	"	"	Clean.	.....	53379	"
.....	21.5	"	"	"	.....	53380	"

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF ARGENTEUIL, TWO MOUNTAINS

1914.							
Mar. 12	Evaporated Apples.	2327	J. Bte. Gougeon, St. 1½ lb.	18			Hudon & Orsali.
" 12	"	2328	Jerome, P.Q.	1½	23		Chevalier & Pouliat, Joliette.
" 12	"	2329	H. Gingras, St. Jerome, P.Q.	1½	18		F. R. Lalor & Co., Montreal.
" 12	"	2330	Vila Lanjou, St. Jerome, P.Q.	1½	19		" "
" 12	"	2331	Leandre Paquin, St. Jerome, P.Q.	1½	23		Hudon Hebert
" 12	"	2332	W. C. Forgette, St. Agathe des Monts.	1½	23		F. R. Lalor & Co.
" 12	"	2333	Mde. L. W. Bissette, St. Agathe des Monts.	1½	20		Hudon & Orsali
" 12	"	2334	Noe Forgette, St. Agathe des Monts.	1½	19		S. J. Carter.
" 12	"	2335	R. Touchette, St. Agathe des Monts.	1½	18		L. Chaput Fils & Cie.

DISTRICT OF QUEBEC—

Mar. 24	Evaporated Apples.	2501	Clephas Beaudoin	1½ lb.	18		Gagnon & Garent Ltd., Quebec.
" 24	"	2502	J. W. Langlois	1½	18		Turcotte Frere & Cie., Quebec.
" 24	"	2503	Pierre Gillebert	1½	18		A. Carrier & Fils, Levis.
" 24	"	2504	Michele Lacroix	1½	15		Turcotte Frere & Cie., Quebec.

DISTRICT OF THREE RIVERS—

Mar. 11	Evaporated Apples	60931	G. H. Beaul, St. Felix de Valois	1½	15		Chaput et Fils, Montreal.
" 11	"	60932	H. Laroche, St. Felix de Valois	1½	15		Jos. Dufresne, Joliette.
" 11	"	60933	W. Bissette, St. Felix de Valois	1½	18		Chevalier & Pouliot, Joliette.
" 11	"	60934	Albert Bellerme, St. Felix de Valois	1½	20		" "
" 12	"	60935	Urie Desrochers, St. Gabriel de Brandin	1½	18		Chevalier & Magnan, Joliette.
" 13	"	60936	C. Barrette, Joliette	1½	18		Lakeview Evap. Co., Meaford, Ont.
" 14	"	60937	Magnan Freres, Joliette	1½	18		Mahler, Forest, Ont.
" 13	"	60938	J. A. Boisvert, Joliette	1½	18		Glapp Littlejohn, Dutton, Ont.
" 13	"	60939	A. Chartier, Joliette	1½	18		O. W. Chatterson, Brighton, Ont.
" 13	"	60940	Duchene & Picard, Joliette	1½	20		Lakeview Evap. Co., Meaford, Ont.

EVAPORATED APPLES.

Inspector's Report (Is not an expression of opinion).	Results of Analysis.				No. of Sample.	Remarks, and Opinion of the Chief Analyst.
	Moisture.	Quality.	Soundness.	Cleanliness.		
				Found.		

AND TERREBONNE—N. CADIEUX, INSPECTOR.

	p.c.					
.....	25.4	Good.	Sound.	Clean.	2327	Satisfactory.
.....	22.2	Fair.	"	"	2328	"
.....	29.6	Good.	"	"	2329	Water content too high.
.....	21.6	"	"	"	2330	Satisfactory.
.....	20.0	"	"	"	2331	"
.....	13.7	"	"	"	2332	"
.....	22.6	"	"	"	2333	"
.....	28.0	"	"	"	2334	Water content high.
.....	20.4	"	"	"	2335	Satisfactory.

O. BROCHU, TEMPORARY INSPECTOR.

.....	8.7	Poor.	Mostly sound.	Fairly clean.	2501	Doubtful.
.....	8.5	"	Sound.	Clean.	2507	"
.....	8.5	"	"	Fairly clean.	2510	"
.....	8.7	"	"	Clean.	2515	"

DR. V. P. LAVALLEE, INSPECTOR.

.....	11.2	Fair.	Sound.	Fairly clean.	60931	Satisfactory.
.....	21.6	"	"	"	60932	"
.....	22.0	"	"	"	60933	"
.....	19.6	Good.	"	Clean.	60934	"
.....	25.7	"	"	"	60935	"
.....	14.1	"	"	"	60936	"
.....	16.2	"	"	"	60937	"
.....	22.8	Good.	Sound.	Clean.	60938	Satisfactory.
.....	15.4	Fair.	"	"	60944	"
.....	19.3	"	"	"	60945	"

BULLETIN No. 293—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost		Name and Address of Manufacturer or Furnisher, As given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF EASTERN TOWNSHIPS—

1914.							
Mar. 24	Evaporated Apples.	60891	A. Petit, Roxton Falls	1½ lbs.	20	Mahler Bros., Dresden, Ont.	
Apr. 29	"	60892	L. S. Biron, Drummondville.	1½ "	18	L. S. Tower, Roseville, Wayne Co., N. Y.	
" 29	"	60893	Gilmour & Girard, Waterloo, P. Q.	1½ "	20	W. H. Benson, Picton, Ont.	
" 30	"	60894	Alf. Daurais, Upton	1½ "	28	Clark, Longwell, Bowmanville, Ont.	
May 1	"	60895	Fred. J. Verrill, Mel-bourne.	1½ "	18	R. J. Graham, Belleville.	
" 18	"	60896	G. Brousseau, St. Hyacinthe.	1½ "	18	" "	
" 18	"	60897	Pierre Levesque, St. Hyacinthe.	1½ "	18	W. V. Shaw, Port Hope.	
" 18	"	60898	Alf. Gervais, St. Hyacinthe.	1 lb.	12		E. Lafrance, St. Hyacinthe.
" 18	"	60899	Pierre Racine, St. Hyacinthe.	1 "	15		
" 18	"	60900	F. X. Leblanc, St. Hyacinthe.	1 "	10		J. Ward & Co., Montreal.

DISTRICT OF MONTREAL—

Mar. 25	Evaporated Apples.	62431	C. Lariviere, 810 Charlevoix St., Montreal.	1½ lbs.	18		Unknown.
" 25	"	62432	Pelleerin Bros., Manufacturer St., Montreal.	1½ "	18		L. Chaput, Filset Cie.
" 25	"	62433	J. A. Seguin, 184 Ropery St., Montreal.	1½ "	18		Unknown
" 26	"	62434	M. Cousol, 465 Grand Trunk St., Montreal.	1½ "	20		Laporte Martin & Cie.
" 26	"	62435	E. Boursier, 57 Laprairie St., Montreal.	1½ "	15		Unknown
" 26	"	62436	Boisvert Freres, 364 Hibernia St., Montreal.	1½ "	18		Bergeron Whissell & Co.
" 26	"	62437	G. Guibard, 118 Island St., Montreal.	1½ "	18		Laporte Martin & Cie.
" 27	"	62438	Joseph Dzyndzyrity, 233 Centre St., Montreal.	1½ "	8		M. Lavut & Son.
" 27	"	62439	Paul Malevitz, Centre St., Montreal.	1½ "	18		Unknown
" 27	"	62440	Martin & Labeau, 256 Centre St., Montreal.	1½ "	20		L. Chaput, Filset Cie.

EVAPORATED APPLES.

Inspector's Report (Is not an expres- sion of opinion.)	Results of Analysis.					No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Moisture.	Quality.	Soundness.	Cleanliness.	Found.		

J. C. ROULEAU, INSPECTOR.

	p. c.						
.....	21.1	Good.	Sound.	Clean.	.....	60891	Satisfactory.
.....	20.9	"	"	"	.....	60892	"
.....	19.8	"	"	"	.....	60893	"
.....	23.0	"	"	"	.....	60894	"
Guaranteed free from	21.9	"	"	"	.....	60895	"
Zinc.....	18.3	"	"	"	.....	60896	"
"	19.3	"	"	"	.....	60897	"
.....	20.5	"	"	"	.....	60898	"
.....	18.1	"	"	"	.....	60899	"
.....	18.6	"	"	"	.....	60900	"

D. J. KEARNEY, INSPECTOR.

.....	18.0	Good.	Sound.	Clean.	.....	62431	Satisfactory.
.....	15.2	"	"	"	.....	62432	"
.....	20.1	"	"	"	.....	62433	"
.....	19.0	Fair.	"	"	.....	62434	"
.....	21.9	Good.	"	"	.....	62435	"
.....	24.2	Fair.	"	Fairly Clean.	.....	62436	"
.....	20.2	Good.	"	Clean.	.....	62437	"
.....	25.6	Fair.	Mostly sound.	Fairly clean.	.....	62438	"
.....	25.1	"	"	"	.....	62439	"
.....	25.0	"	"	"	.....	62440	"

BULLETIN No. 293—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cont.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF VALLEYFIELD—

1914.							
Mar. 18	Evaporated Apples	62721	A. Foisy, St. John's P.Q.	1½ lb	15		
" 18	"	62722	M. A. Comtois, St. John's, P.Q.	1½ "	20		
" 18	"	62723	Hy. Sansouci, St. John's, P.Q.	1½ "	18	W. H. Benson,	Pictou, Ont.
" 23	"	62724	G. L. E. Guimond, Beauharnois, P.Q.	1½ "	18		
" 23	"	62725	J. C. Leonard, Beauharnois, P.Q.	1½ "	20		
" 23	"	62726	J. F. Aubert, Beauharnois, P.Q.	1½ "	20		
" 24	"	62727	Arthur McLean, Bedford, P.Q.	1½ "	20		
" 24	"	62728	D. H. Connor, Bedford, P.Q.	1½ "	20	Homer Read,	Meaford, Ont.
" 24	"	62729	Best Bros., Bedford, P.Q.	1½ "	20		
" 24	"	62730	C. O. Jones, Bedford, P.Q.	1½ "	20		

DISTRICT OF OTTAWA—

Mar. 13	Evaporated Apples	63301	W. H. Dickson, Quyon, P.Q.	1½ lb	18		F. J. Castle Co. Ottawa.
" 16	"	63302	Williams & Vanluven, Smith's Falls.	1½ "	19		Robertson, Nicolle, Smith's Falls.
" 16	"	63303	Baxter & Co., Smith's Falls.	1½ "	20		Geo. Robertson & Son, Smith's Falls.
" 16	"	63304	The A. B. Scott Co., Smith's Falls.	1½ "	18		Robertson Nicolle, Smith's Falls.
" 17	"	63305	D. J. Gillies, Cornwall.	1½ "	20		Chaput Fils, Montreal.
" 17	"	63306	W. H. Gardiner, Cornwall.	1½ "	19	Unknown	Unknown.
" 17	"	63308	A. E. Rea Co., Ltd., Ottawa.	1½ "	23		Lerner & Son, Ottawa.
" 23	"	63309	J. Bambrick, Byward Market, Ottawa.	1½ "	15		Unknown.
" 23	"	63310	Peter Devine, Byward Market, Ottawa.	1½ "	15		J. Moynour, Ltd., Ottawa.
" 25	"	63330	P. J. Glavey, Byward Market, Ottawa.	1½ "	20		H. N. Bate & Sons, Ottawa.

EVAPORATED APPLES.

Inspector's Report. (Is not an expression of opinion).	Results of Analysis.					No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Moisture.	Quality.	Soundness.	Cleanliness.	Found.		

J. J. COSTIGAN, ACTING INSPECTOR.

	p. c.						
.....	23.2	Good.	Sound.	Clean.	.....	62721	Satisfactory.
.....	18.4	Fair.	"	"	.....	62722	"
.....	22.3	"	Mostly sound.	"	.....	62723	"
.....	30.0	"	Sound.	Fairly clean.	Incipient ferment- ation.	62724	Water content too high.
.....	26.3	Good.	"	Clean.	"	62725	Unsatisfactory.
.....	23.6	"	"	"	.....	62726	Satisfactory.
.....	29.2	Fair.	"	Fairly clean.	Incipient ferment- ation.	62727	Water content too high.
.....	25.9	"	"	Clean.	"	62728	Unsatisfactory.
.....	18.6	"	Mostly sound.	Fairly clean.	.....	62729	Satisfactory.
C and L. Brand....	23.3	"	Sound.	Clean.	.....	62730	"

J. A. RICKEY, INSPECTOR.

.....	21.4	Fair.	Sound.	Clean.	.....	63301	Satisfactory.
.....	26.7	Good.	"	"	Incipient ferment- ation.	63302	Unsatisfactory.
.....	17.6	"	"	"	.....	63303	Satisfactory.
.....	20.7	"	"	"	.....	63304	"
.....	24.0	Fair.	"	"	.....	63305	"
.....	19.5	Good.	"	"	.....	63306	"
.....	23.6	Fair.	"	"	.....	63308	"
.....	21.0	Good	Sound	Clean.	.....	63309	"
.....	24.6	Fair.	"	"	.....	63310	"
.....	20.7	"	"	Fairly clean.	.....	63330	"

BULLETIN No. 293—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF KINGSTON—

1914.							
Mar. 12	Evaporated Apples.	60077	P. A. Haffner, Kingston.	1½ lb.	20		Geo. Robertson & Son, Kingston.
" 12	"	60078	C. H. Pickering, Kingston.	1½ "	20		Robertson, Nicolle & Co., Kingston.
" 12	"	60079	Anderson Bros., Kingston.	1½ "	20		W. G. Craig & Co., Kingston.
" 12	"	60080	H. A. Smith, Kingston.	1½ "	20		Geo. Robertson & Son, Kingston.
" 12	"	60081	J. D. Redmond, Kingston.	1½ "	15		J. Redden Co., Kingston.
" 12	"	60082	E. S. Suddard, Kingston.	1½ "	20		Geo. Robertson & Son, Kingston.
" 13	"	60083	D. Couper, Kingston.	1½ "	20		Geo. Robertson & Son, Kingston.
" 13	"	60084	J. Redden & Co., Kingston.	1½ "	20		R. J. Carson, Kingston.
" 16	"	60085	F. Rosevear, Port Hope.	1½ "	20		Perking Ince & Co., Peterborough.
" 16	"	60086	W. J. Roulty, Peterborough.	1½ "	20		W. Davies, Toronto.

DISTRICT OF TORONTO—

Mar. 21	Evaporated Apples.	62167	John Fell, 731 Broadview Ave., Toronto.	1½ lb.	20	J. P. Langdon, Lucan.	
" 21	"	62168	The T. Eaton Co., Ltd., Toronto.	1½ "	15		J. Innis
" 21	"	62169	The Robt. Simpson Co., Ltd., Toronto.	1½ "	15		Unknown
" 23	"	62170	Brown Bros., 592 Queen st. west., Toronto.	1½ "	20		The Davidson Hay Co., Ltd., Toronto.
" 24	"	62171	T. J. Medland, 132 King st. east, Toronto.	1½ "	18	J. F. Langdon, Lucan.	
" 24	"	62172	J. Conway & Co., 199 Dundas st. west., Toronto.	1½ "	18	Mahler Bros., Forest.	
April 2	"	62173	Michie & Co., Ltd., King st. w., Toronto.	7 1½ "	23		Unknown

DISTRICT OF HAMILTON—

April 14	Evaporated Apples.	63261	Peebles Hobson Co., Ltd., Hamilton, Ont.	1½ lb.	19	Binder & Harrison, Kincairdine.	
" 29	"	63262	J. H. Marshall, 101 Queen st., Niagara Falls.	1½ "	20	"	

DISTRICT OF WINDSOR—

Mar. 9	Evaporated Apples.	53619	F. McDougall, Ingersoll	3 tins.	15	E. O. Robinson & Co., Ingersoll.	
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EVAPORATED APPLES.

Inspector's Report (Is not an expression of opinion).	Results of Analysis.				No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Moisture.	Quality.	Soundness.	Cleanliness.		
				Found.		

JAMES HOGAN, INSPECTOR.

	p.c.					
.....	18.6	Fair.	Sound.	Fairly clean.	60077	Satisfactory.
.....	17.9	"	"	"	60078	"
.....	19.1	Good.	"	Clean.	60079	"
.....	19.1	"	"	"	60080	"
.....	17.6	"	"	"	60081	"
.....	23.3	"	"	"	60082	"
.....	26.8	"	"	"	60083	"
.....	25.9	"	"	"	60084	Unsatisfactory.
.....	21.0	Poor.	Mostly Sound	Fairly clean.	60085	Doubtful.
.....	25.7	Good.	Sound.	Clean.	60086	Satisfactory.

H. J. DAGER, INSPECTOR.

.....	23.9	Fair.	Sound.	Clean.	62167	Satisfactory.
.....	21.7	Good.	"	"	62168	"
.....	30.1	Fair.	"	Fairly clean.	62169	Water content too high.
.....	27.5	Good.	"	Clean.	62170	"
.....	28.2	Fair.	"	Fairly clean.	62171	"
.....	19.2	"	"	"	62172	Satisfactory.
.....	27.7	Good	"	Clean.	62173	Water content high.

H. J. DAGER, ACTING INSPECTOR.

.....	11.6	Good.	Sound.	Clean.	63261	Satisfactory.
.....	18.5	"	"	"	63262	"

W. O. TALBOT, INSPECTOR.

.....	24.3	Fair.	Sound.	Clean.	53619	Satisfactory.
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BULLETIN No. 293—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents	Manufacturer.	Furnisher.

DISTRICT OF MANITOBA—

1914.							
Mar. 12	Evaporated Apples	53281	Lawrie Bros., Craydon ave., Winnipeg.	1½ lb	20		
" 16	"	53282	Hardy & Buchanan, Pembina st., Winnipeg.	1½ "	20		Richards & Brown, Winnipeg.
" 17	"	53283	J. Paterson, Main st. N., Winnipeg.	1½ "	22		The A. Macdonald Co., Ltd., Winnipeg.
" 17	"	53284	Max. Bryer, 1239 Main st., Winnipeg.	1½ "	15		
" 17	"	53285	J. Grant & Co., Notre Dame ave., Winnipeg.	1½ "	20		
" 17	"	53286	J. A. McDowell, Sherbrooke st., Winnipeg.	1½ "	20		M. Schier, Arkona, Ont.
" 18	"	53287	A. R. Paterson, Portage ave., Winnipeg.	1½ "	20	L. Mahley & Sons, Strathroy, Ont.	
" 18	"	53288	Gadway & Co., Portage ave., Winnipeg.	1½ "	20	"	Campbell Bros. & Wilson, Winnipeg.
" 18	"	53289	John MacMillan, 579 Portage ave., Winnipeg.	1½ "	20	O. E. Robinson & Co., Ingersoll, Ont.	
" 18	"	53290	W & D. Mayro, Main st. N., Winnipeg.	1½ "	23	W. H. Benson, Pictou, Ont.	The Codville Co., Winnipeg.

DISTRICT OF SASKATCHEWAN

Mar. 26	Evaporated Apples	63702	V. Putz, Regina.	1½ lb.	15	Mahler Bros., Ont.	
" 30	"	63709	Biggs Bros., Regina.	1½ "	15	The Phillips Co., Redversville, Ont.	
" 30	"	63715	Crown Grocery, Regina.	1½ "	15	"	
" 30	"	63718	The Colonial Grocery, Regina.	1½ "	25	"	
" 30	"	63721	S. B. Yerxa, Regina.	1½ "	25	Mahler Bros., Dresden, Ont.	
" 31	"	63722	The Regina Trading Co., Regina.	1½ "	20	"	
" 31	"	63727	Haberlack & Schilling, Sedley.	1½ "	20	Vict. Evap., Norfolk, Ont.	
April 1	"	63737	Crown Grocery, Regina.	1½ "	25	The Phillips Co., Redversville, Ont.	
" 31	"	63716	K. H. Williams & Sons, Regina.	1½ "	20	Lawrie Co., Forest, Ont.	
April 1	"	63738	Crown Grocery, Regina.	1½ "	Ntl	The Phillips Co., Redversville, Ont.	

EVAPORATED APPLES.

Inspector's Report. (Is not an expression of opinion).	Results of Analysis.					No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Moisture.	Quality.	Soundness.	Cleanliness.	Found.		

A. C. LARIVIERE, INSPECTOR.

P. C.							
20.1	Fair...	Sound..	Fairly clean.	53281	Satisfactory.		
21.6	Good...	" ..	Clean ..	53282	"		
24.5	" ..	" ..	" ..	53283	"		
19.5	" ..	" ..	" ..	53284	"		
15.8	Fair...	" ..	Fairly clean.	53285	"		
20.9	Good...	" ..	Clean...	53286	"		
20.3	Fair...	Mostly sound.	" ..	53287	"		
17.1	" ..	" ..	Fairly clean.	53288	"		
26.1	Good...	Sound..	Clean ..	53289	"		
20.6	Fair...	" ..	Fairly clean.	53290	"		

JNO. O. SCOTT, INSPECTOR.

9.2	Fair...	Sound..	Fairly clean.	Slight trace SO ₂ ...	63702	Satisfactory.
17.2	" ..	" ..	" ..		63709	"
16.0	" ..	" ..	Clean ..		63715	"
20.6	" ..	Slightly decayed.	Fairly clean.		63718	Unsatisfactory.
23.9	Good...	Sound..	Clean...		63721	Satisfactory.
24.7	Fair...	Mostly sound.	" ..		63722	"
21.2	Good.	Sound.	Clean.		63727	"
17.3	Fair.	Mostly sound.	" ..		63737	"
11.3	Good.	Sound.	" ..		63716	"
17.3	" ..	" ..	" ..		63738	"

BULLETIN No. 293—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF ALBERTA—

1914.							
Mar. 18	Evaporated Apples.	51937	Sprague & Williamson, Medicine Hat.	1½ lb.	23	The Gibb Co., Hamilton.	
" 18	"	51938	Taylor Bros., Medicine Hat.	"	20	Town & Case, Clinton, Ont.	
" 18	"	51939	Spencer & Todd, Medicine Hat.	"	20	Johnson Bros., Forest, Ont.	
" 19	"	51940	H. A. McKillop Co., Lethbridge.	"	20	Wm. Schaus, Clifford, Ont.	
" 19	"	51941	Hudsons Bay Co., Lethbridge.	"	20	W. V. Schaus, Clifford, Ont.	
" 19	"	51942	Bentley Co. Ltd., Lethbridge.	"	22	Biggs Fruit & Produce Co., Ltd., Burlington, Ont.	
" 21	"	51943	Campbell, Wilson & Horne, Calgary.	"	20	Burr & Tuttle, Salmon Point, Ont.	
" 21	"	51944	George J. Wood, Calgary.	"	22	Lalor & Company, Oshawa.	
" 23	"	51945	J. H. Morris & Co., Edmonton.	"	17	The Gill Co. Ltd., Hamilton.	
" 23	"	51946	Henry Wilson, Edmonton.	"	25	W. H. Benson, Picton, Ont.	

DISTRICT OF ROCKY MOUNTAINS—

Feb. 17	Evaporated Apples.	50079	L. C. Masson, Revelstoke, B.C.	1½ lb.	30	F. R. Lalor & Co., Dunnville, Ont.	
" 17	"	50080	Bourne Bros., Revelstoke, B.C.	"	30	Biggs Fruit & Produce Co. Ltd., Burlington, Ont.	
" 17	"	50081	C. B. Hume & Co., Revelstoke, B.C.	"	25	Thos. Symington, Napanee, Ont.	
April 13	"	50087	W. J. Woods, Enderby, B.C.	"	25	Badley Canning Co., Talent, Ore.	
" 13	"	50091	Polson, Murrin & Speers, Enderby, B.C.	"	30	Balfour, Smye & Co., Hamilton.	
May 2	"	61608	Hudson's Bay Co., Nelson, B.C.	"	25	Thos. Symington, Napanee, Ont.	
" 2	"	61609	Bell Trading Co., Nelson, B.C.	"	25	Balfour Smye & Co., Hamilton.	
" 6	"	61611	Creston Mercantile Co., Creston, B.C.	"	25	James Turner, Hamilton.	
" 12	"	61612	Hoerner Industrial Association, Hoerner, B.C.	"	25	The F. R. Lalor Co., Dunnville, Ont.	
" 12	"	61618	Bohemian & Russian Store, Hoerner, B.C.	"	25	A. MacDonald, & Co., Fernie, B.C.	

EVAPORATED APPLES.

Results of Analysis.

Inspector's Report. (Is not an expression of opinion).	Moisture.	Quality.	Soundness.	Cleanliness.	Found.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
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A. W. R. MARKLEY, INSPECTOR.

	p.c.						
	16.3	Fair.	Slightly dried	Fairly clean.		51937	Unsatisfactory.
	14.6	Good.	Sound.	Clean.		51938	Satisfactory.
	16.0	"	"	"		51939	"
	20.7	Fair.	Mostly sound.	"		51940	"
	20.4	Good.	Sound.	"		51941	"
	16.5	"	"	"		51942	"
	22.4	"	"	"		51943	"
	21.1	Fair.	"	"		51944	"
	26.1	"	"	Fairly clean.		51945	"
	15.5	"	"	"		51946	"

THOS. PARKER, INSPECTOR.

	22.1	Good.	Sound.	Clean.		50079	Satisfactory.
	20.5	"	"	Fairly clean.		50080	"
	27.6	"	"	Clean.		50081	Water content high.
	20.7	Fair.	"	"		50087	Satisfactory.
Evaporated	22.9	Good.	"	"		50091	"
	32.3	"	"	"	Incipient fermenta- tion.	61608	Water content to high.
	23.8	Fair.	Sound.	Clean.	One worm and nine Beetles.	61609	Unsatisfactory.
	20.2	Good.	"	"		61611	Satisfactory.
	23.5	"	"	"		61612	"
	25.1	"	"	"		61618	"

BULLETIN No. 293—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, As given by the Vendor:	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF VANCOUVER—

1914.							
Mar. 31	Evaporated Apples.	54997	H. A. Edgett Co., Ltd., Vanc, B. C.	1½ lbs.	25	Unknown	Leeson, Dickie, Gross & Co., Ltd. Vanc, B. C.
" 31	"	54998	Woodward Dept. Stores, Vanc, B. C.	1½ "	20	F. R. Labor & Co. Ltd., Dunnville, Ont.	
Apr. 17	"	54999	Swindell Bros., 1417 Commercial Drive, Vanc, B. C.	1½ "	25	Unknown	The W. H. Malkin, Co., Ltd., Vanc, B. C.
" 17	"	55000	King Grocery Co., 950 Commercial Drive, Vanc, B. C.	1½ "	25	F. R. Lalor Co., Ltd., Dunnville, Ont.	
" 17	"	55001	False Creek Grocery, 799 Keefer St., Vanc, B. C.	1½ "	25	" "	
" 21	"	55002	Annandale Supply Co., Columbia St., New Westminster, B. C.	1½ "	25	" "	
" 21	"	55003	C. A. Welsh Ltd., New Westminster, B. C.	1½ "	25	" "	
" 21	"	55004	Larsen & Aune, 601 Front St., New Westminster, B. C.	1½ "	25	" "	
" 22	"	55005	W. H. Walsh, Seymour & Davie Sts., New Westminster, B. C.	1½ "	20	Guggenlime & Co., California.	Kelly, Douglas & Co., Ltd., Vanc, B. C.
" 22	"	55006	The Webster Bros., Ltd., 1275 Granville St., New Westminster, B. C.	1½ "	20	F. R. Lalor Co., Ltd., Dunnville, Ont.	

DISTRICT OF VICTORIA—

Mar. 12	Evaporated Apples.	57775	C. F. Wood, 971 Yates St., Victoria, B. C.	1½ lbs.	20		
" 13	"	57781	Acton Bros., 1317 Douglas St., Victoria, B. C.	1½ "	25		Simon Leiser & Co. Ltd., Victoria, B. C.
" 13	"	57783	Windsor Grocery Co., 817 Govt. St., Victoria, B. C.	1½ "	25	California Fruit Canner's Association, San Francisco, Cal.	
" 13	"	57784	The West End Grocery Co., Ltd., 1002 Govt. St., Victoria, B. C.	1½ "	25		R. P. Rithet & Co. Ltd., Victoria B. C.
" 13	"	57787	Copas & Young, 633 Fort St., Victoria, B. C.	1½ "	25		" "
" 13	"	57788	Copas & Young, 633 Fort St., Victoria, B. C.	1½ "	25		" "

EVAPORATED APPLES.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.					No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Moisture.	Quality.	Soundness.	Cleanliness.	Found.		

E. J. MORGAN, INSPECTOR.

	p. e.						
.....	20.8	Good.	Sound.	Clean.	.....	54997	Satisfactory.
.....	20.4	"	"	"	.....	54998	"
.....	22.4	"	"	"	.....	54999	"
.....	24.6	"	"	"	.....	55000	"
.....	20.7	"	"	"	.....	55001	"
.....	21.5	"	"	"	Very slight trace SO ₂	55002	"
.....	25.4	"	"	"	.....	55003	"
.....	24.9	"	"	"	.....	55004	"
Box marked "con- tains Sulphur Di- oxide."	20.6	Fair.	"	"	Slight trace SO ₂	55005	"
.....	23.5	Good.	"	"	.....	55006	"

D. O. SULLIVAN, INSPECTOR.

.....	23.5	Good.	Sound.	Clean.	.....	57775	Satisfactory.
.....	25.2	Fair.	Mostly sound.	Fairly clean.	.....	57781	"
Ora Brand	23.8	"	Sound.	"	.....	57783	"
.....	22.8	"	Mostly sound.	"	.....	57784	"
.....	25.0	Good.	Sound.	Clean.	Heavy trace SO ₂	57787	Excess sulphurous acid, otherwise satisfactory.
.....	25.9	"	"	"	.....	57788	Doubtful. Satisfactory.

BULLETIN No. 293—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, As given by the Vendor.	
				Quantity.	Cust.	Manufacturer.	Furnisher.

DISTRICT OF VICTORIA—

1914.							
Mch. 17	Evaporated Apples.	57789	Dixie H. Ross & Co., 1317 Govt. St., Victoria, B. C.	1½ lbs.	25	Norfolk Preserving Co., Simcoe, Ont.	
" 17	"	57792	H. O. Kirkham, 741 Fort St., Victoria, B. C.	1½ "	25	Unknown	Unknown
" 17	"	57795	Erskine & Co., 861 Johnston St., Victoria, B. C.	1½ "	25	California Fruit & Canner's Association, San Francisco, California.	
" 17	"	57799	C. H. Barrington, 1422 Fort St., Victoria, B. C.	1½ "	25	F. R. Lalor & Co., Ltd., Dunnville, Ont.	

from leading Foods, &c —Composition of Apple —

Atwater & Bryant. Bull. 28— Dept. Agriculture U.S.A.

Means of 29 Samples —

	Mean	As purchased
Water —	84.6	63.3
Refuse —		25.0
Protein — 0.4		0.3
Fat — 0.5		0.3
Total Carbohydrates — 14.2		10.8
Crude Fibre — 1.2		
Ash — 0.3		0.3
Calories per pound — 290		220

Worwone — Agr Dept. Penn. Bull. 58

Average composition for 27 varieties

Water —	83.57	
Solids —	16.43	
Invert Sugar —	7.92	} 11.91 = 12.12 as invert Sugar
Sucrose —	3.99	
Free lactic acid —	0.61	
Ash —	0.27	
Sugar coeff. =	$\frac{12.12 \times 100}{16.43} = 73.76 \% \text{ of Solids.}$	

EVAPORATED APPLES.

Inspector's Report (Is not an expression of opinion).	Results of Analysis.					No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Moisture.	Quality.	Soundness.	Cleanliness.	Found.		

Concluded.

	p. c.						
.....	21.5	Poor.	Mostly Sound.	Not Clean.	Three beetles.....	57789	Unsatisfactory.
.....	21.0	Fair.	"	Clean.	Two beetles.....	57792	"
.....	23.2	Poor.	"	Fairly Clean.	One dead beetle.....	57795	"
.....	25.4	"	"	Not Clean.	Three worms.....	57799	"